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**Claims:**

1-5 (canceled)

6-17 (canceled)

5 18-20 (canceled)

21 (new), A point-to-point redundant wireless network link comprising:

two dual-channel redundant wireless network link (RFWL) devices;

two computer networks;

10 wherein the RFWL device having two separate wireless networking radio  
units that can communicate with remote corresponding wireless  
networking radios forming a wireless networking sub-link via antenna  
means,

wherein the RFWL device having one wired network interface for  
connecting to wired computer network,

15 wherein the RFWL device having running redundant communication  
features means for communicating with remote RFWL device  
wirelessly,

wherein one RFWL device operating as redundant wireless networking  
Service Equipment (SE),

20 wherein other one RFWL device operating as redundant wireless  
networking Client Equipment (CE),

wherein said SE and CE each having wired networking port connecting to  
each one of said two computer networks,

25 wherein said SE and said CE communicating to each other via antenna  
means forming a redundant wireless networking link,

wherein said SE having two of its wireless networking radio units working  
simultaneously,

wherein said CE having one of its wireless networking radio units  
communicating with the said SE, the other one of its wireless

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networking radio units working at standby mode and will continue communication with the said SE if the first link fails, and whereby said two computer networks communicating to each other wirelessly and redundantly via said redundant wireless networking link.

5 22 (new). The dual-channel redundant wireless network link of claim 21 wherein said RFWL device comprising two different types of wireless networking radios.

23 (new). The dual-channel redundant wireless network link of claim 21 wherein said RFWL device comprising two same type of wireless  
10 networking radios with antenna isolation means.

24 (new). A Method of redundant wireless networking link providing first dual-channel redundant wireless network link device operating as Service Equipment (SE) with antenna means, wherein said SE comprising two wireless networking radio unit and one wired  
15 networking interface,  
providing second dual-channel redundant wireless network link device operating as Client Equipment (CE), with antenna means, wherein said CE comprising two wireless networking radio unit and one wired networking interface,  
20 providing first computer network connection to wired networking port of said SE,  
providing second computer network connection to wired networking port of said CE,  
setting said SE ready to communicate with two wireless networking channels  
25 to remote said CE,  
setting up the said CE to communicate with said SE in one channel forming one sub-link,

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running link quality monitoring function means in CE, when link quality monitoring system detects the link quality of said sub-link is below requirement or failed, and

5 switching said CE to work with the second wireless networking channel and communicating to the second channel of the said SE, communicating said CE continually with said SE, keeping said first and second computer network communicating with each other continually via said SE and said CE .

10 25.(new) One point-to-multi-point dual-channel redundant wireless network comprising:  
a plurality of other dual-channel redundant wireless network link (RFWL) devices;  
a plurality of computer networks;  
15 wherein the RFWL device having two separate wireless networking radio units that can communicate with remote corresponding wireless networking radios forming a wireless networking sub-link via antenna means,  
wherein the RFWL device having one wired network interface for connecting  
20 to wired computer network,  
wherein the RFWL device having running redundant communication features means for communicating with remote RFWL device wirelessly,  
wherein the first one of said a plurality of RFWL device operating as redundant wireless networking Service Equipment (SE),  
25 wherein the rest of said a plurality of RFWL devices operating as redundant wireless networking Client Equipments (CEs),  
whereby said SE is connecting with first computer network of said a plurality of computer networks with its wired network interface,

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whereby said a plurality of CEs are connecting to the rest of said a plurality of computer networks with each corresponding wired network interface, wherein said SE is wirelessly and redundantly communicating with said a plurality of CEs remotely forming one point-to-multi-point dual-channel redundant wireless network, and

5 whereby said first computer network communicating with the rest of said plurality of computer networks via said point-to-multi-point dual-channel redundant wireless network formed by the corresponding communicating SE and CEs.

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